SIMON PETROLEUM TECHNOLOGY

Print: 6S12 H
Units: [✓ M] F
Length: 25 FT
Initials: CMC

WELL: 30/6-14

Top	Bottom	Scale	TD
130	2910	1:500	2905

DIGITAL WIRELINE LOGS PACKAGE
1994

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SIMON PETROLEUM TECHNOLOGY

SPT

COMPLETION LOG

Rb.101.1

Norsk Hydro
Bergen - Norway

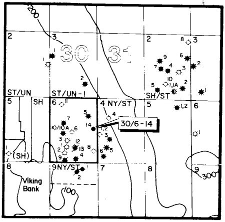
REGISTRERT
12 AUG. 1984

Completion log

Scale 1:500

Well: 30/6-14

Location map



Scale: 1:1.000.000

Coordinates:	60°38'07.69" N 02°59'21.76" E
Elevation K B:	23 m
Water Depth:	148 m
Total Depth (Driller):	2900 m
Total Depth (Logger):	2905 m
Formation at Total Depth:	Statfjord Fm.

Country:	Norway
Licence:	053
Owners:	Norsk Hydro/Statoil/Saga/Elf/Mobil/Total
Field:	Wildcat
Date Spudded:	17.12.83.
Reached Total Depth:	17.01.84.
Completed:	09.02.84.
Well Status:	Plugged and abandoned with Oil discovery in the Statfjord Formation.
Rig:	Treasure Scout
Contractor:	W. Wilhemsen
Mudlogging Company:	Exploration Logging
Geologists:	Henderson, Edwardsen, Ree, Giskeødegaard, Dons.
Prepared by:	P.A. Midtkandal, B.I. Tollefsen
Date:	03.08.84

Casing Records:

30"	at	258.5 m
20"	at	601 m
13 3/8"	at	1648 m
9 5/8"	at	2885m
7" liner at		

Comments:

Logs Run

ISF/SONIC	LDT/CNL	SHDT	DLL/MSFL/CAL/GR	VELOCITY SURVEY	RFT
1. 618 - 258.5 m 2. 1647 - 601 m 3. 2905 - 1649 m	1. 1648 - 601 m (Only LTD) 2. 2905 - 1649	1. 2903.5 - 1800	1. 2900.5 - 2600	1. 2905 - 354	1. 2851.5 - 2421.0

NGT	CST	CBL/VBL
1. 2905 - 2225 m	1. 2905 - 2440 2. 2429 - 2075	1. 1640 - 295 2. 2824 - 1295

Legend

CONGLOMERATE
SAND/SANDSTONE
SILT/SILTSTONE
CLAY
CLAYSTONE

SHALE
LIMESTONE
DOLOMITE
DOLOMITIC LIMESTONE
CALCAREOUS DOLOMITE

CHALK
MARL MARLSTONE
COAL LIGNITE

ANHYDRITE
SALT
GYPSUM
TUFF
IGNEOUS EXTR INTR

SANDY VERY
SANDY
SANDY SLIGHTLY

SILTY VERY
SILTY
SILTY SLIGHTLY

ARGILLACEOUS

C Carbonaceous mat
△ Chert
✱ Glauconite
M Mica
□ Pyrite
Macrofossils
Macrofossils frag
Microfossils

Hydrocarbon Shows
- Oilstain
- Fluorescence
- Visible cut
- Fluorescence cut
- Gas Shows

Casing Shoe ◢
Deviation 2
Dipmeter results 3°
One way time from Velocity survey (depth m K.B.) eg 3603 m 1.450s

Core Interval
(No recovery)
Side Wall Core →
(No recovery) ⇾
Fault

Perforated Interval
Cement Plug Interval

DST
- ① Through casing
- ② Open hole
- Re - Run
- ① RFT/FIT

SYSTEM | SERIES (PALEO PERFORMED BY ROBERTSON RESEARCH LTD.) | STAGE | GROUP | FORMATION | MEMBER

SPONTANEOUS POTENTIAL
millivolts
− 10 +

0 50

50 150
GAMMA RAY
api units

CALCIMETRY
% Calc ——
% Dol - - - -
Recorded from 1750m
0 20 40 60 80 100

Depths

LITHOLOGY

RESISTIVITY
ohms - m

DEEP INDUCTION Rild
0 2 1 0 10 100 1000 2000

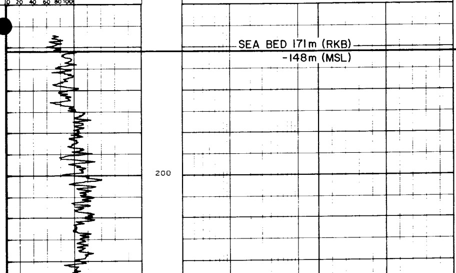
SPHERICALLY FOCUSED RESISTIVITY Rsfl
0 2 1 0 10 100 1000 2000

240 140 40

INTERVAL TRANSIT TIME Δ t
microsecond per foot

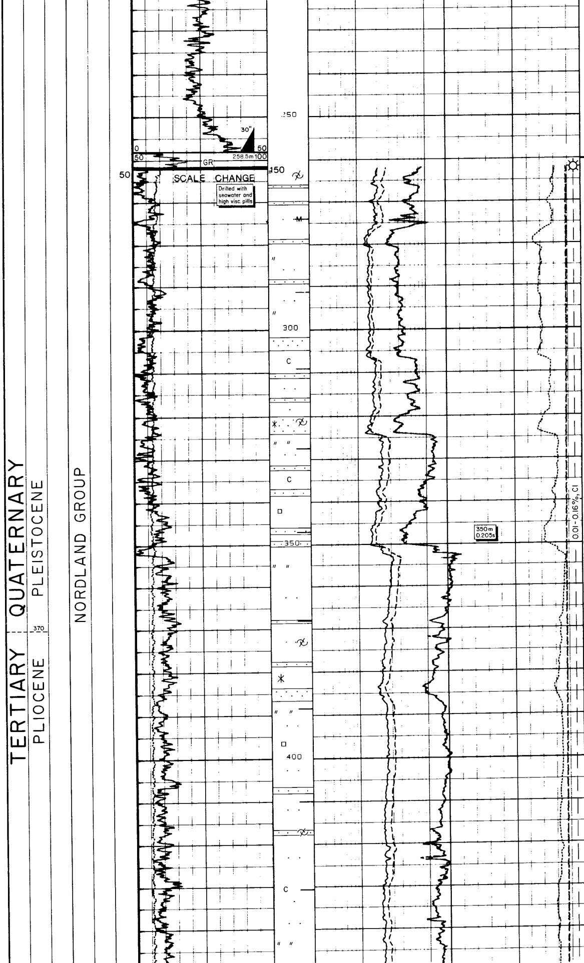
TTI
10ms

Lithological Description



171 - 260 m

Drilled with returns to sea bed.



260 - 706 m

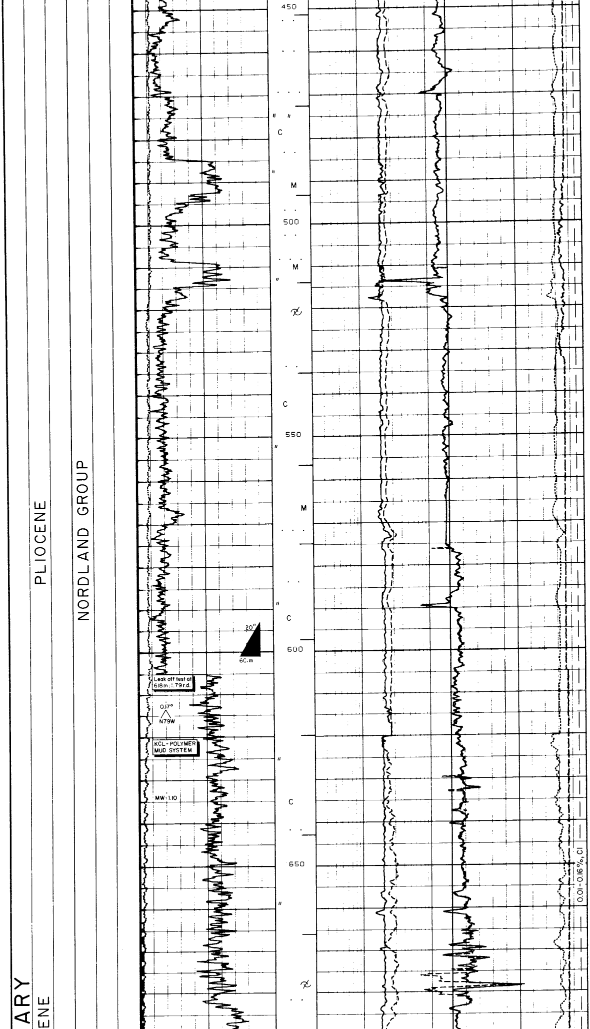
Cly: dk gy, loc olv gy, grn gy, v sft - loc firm, stky, slty, loc v slty - sdy, carb, loc tr glau, loc micromic, non - in pt sl calc.

Strgs and bds of **Sd:** pred clr Qtz, loc tr dk min, lithic frags, vf - crs, pred f - m, rnd - subang, mod - poor srtg.

Loc tr **Shell frags.**

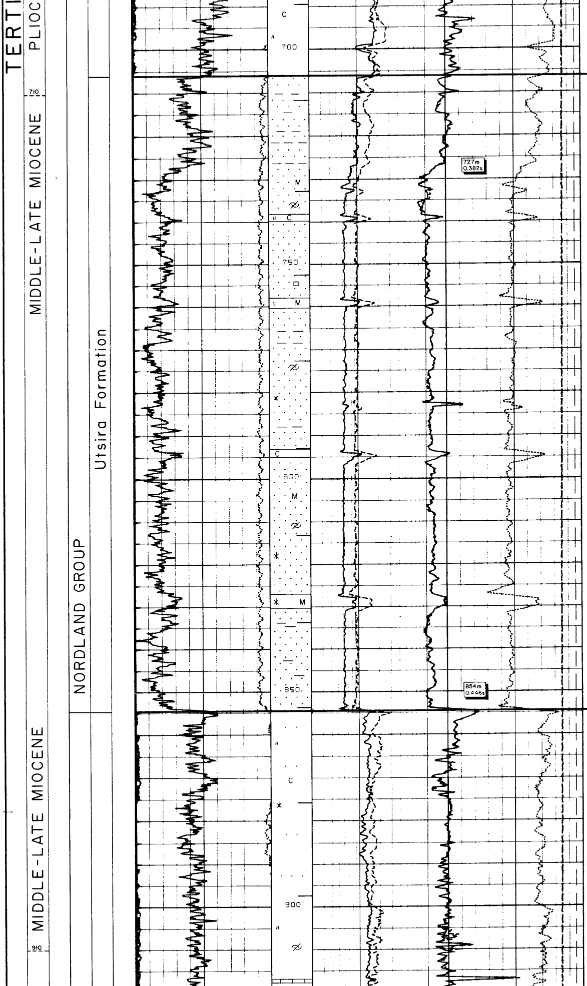
Occ tr **Pyr.**

Cly: olv gy a/a.



Cly: dk gy a/a.

Cly: a/a m dk gy - dk grn gy.



706 - 854 m

Sd: clr Qtz, f - loc v crs bcm pred m - crs, subrnd - subang, tr mica, loc tr glau, mod - poor srtg.

Intbds of **Cly:** m dk gy - dk grn gy, sft, slty, loc vf sdy, tr carb, mica, loc tr glau, non - sl calc.

Loc gd tr **Shell frags.**

Occ tr **Pyr.**

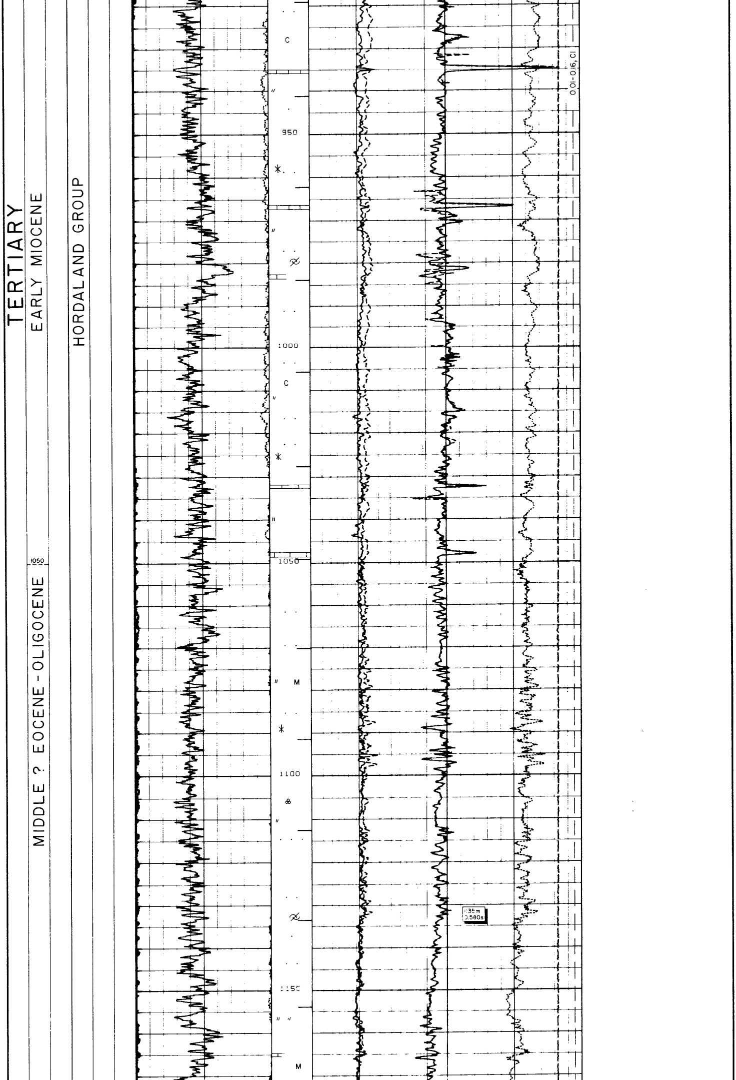
Loc tr **Glau.**

854 - 1400 m

Cly: olv gy, in pt olv gy - brn gy, v sft - bcm firm, slty, loc vf sdy, tr carb, loc glau, tr mica, non - sl calc.

Strgs of **Sd:** Clr Qtz, vf - f, subrnd - loc subang, gen well srtd.

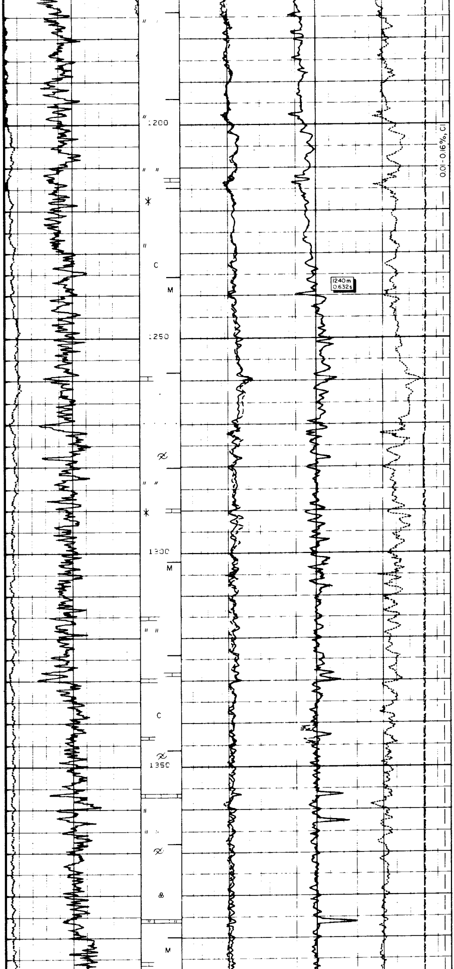
Strgs of **Lst:** wh - lt gy - pink gy, sft - mod hd, loc hd, loc glau, microxln.



TERTIARY

MIDDLE ? EOCENE-OLIGOCENE

HORDALAND GROUP



Cly: a a bcm firm and grdg **Clyst**

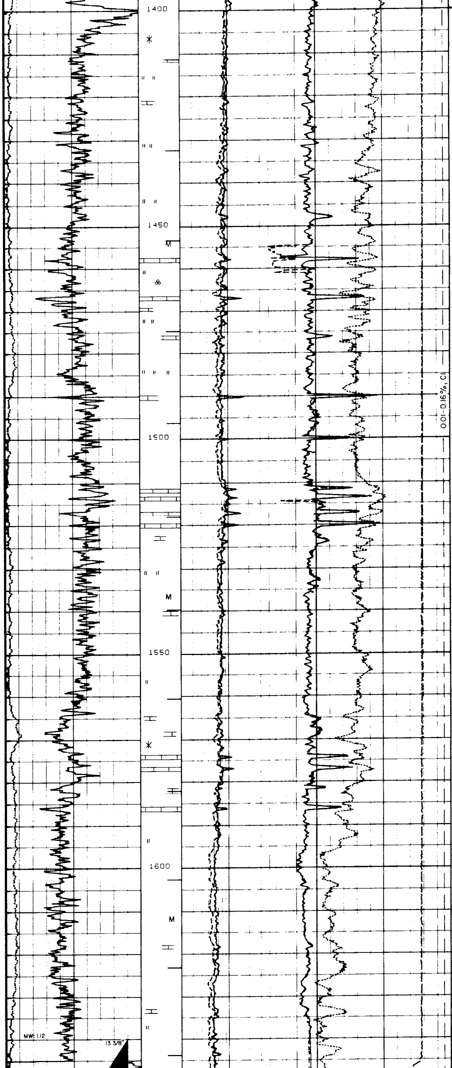
Cly/Clyst: olv gy a/a.

Cly/Clyst: a/a olv gy. minor dusky yel brn.

TERTIARY

EARLY ? EOCENE-MIDDLE EOCENE | 1570 | MIDDLE ? EOCENE | EOCENE-OLIGOCENE

HORDALAND GROUP



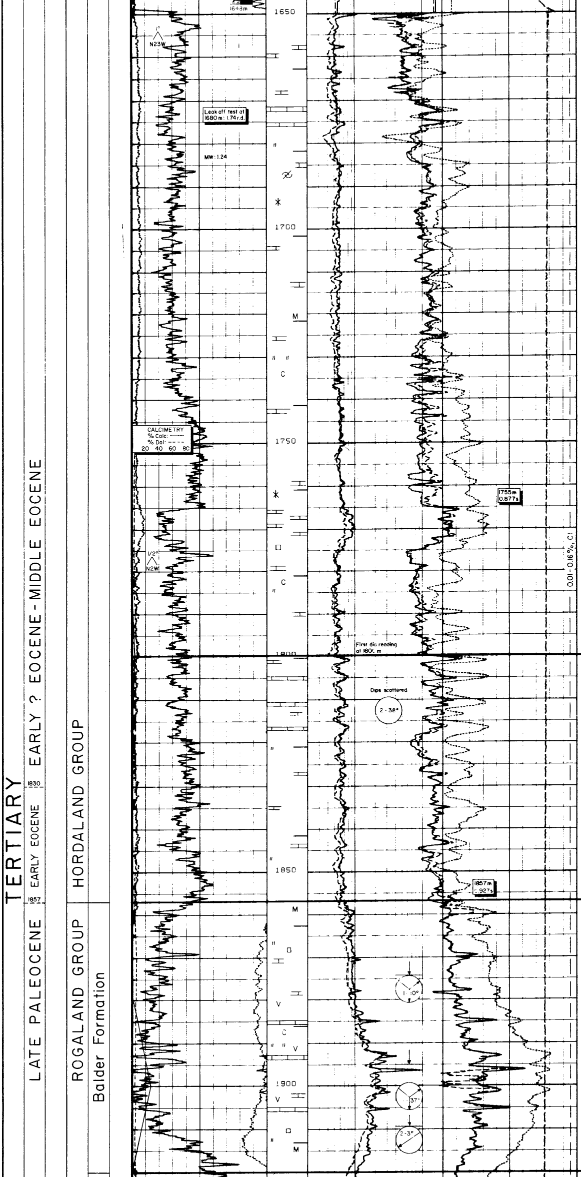
1400 - 1800 m

Clyst: olv gy - dusky yel brn, bcm pred dk grn gy, firm, blky - subfis and lam, slty, occ v slty, sl micromic, loc glau, loc tr carb, non - sl calc.

Strgs of **Lst:** wh - pink gy, gy orng, sft - loc v hd, blky in pt sucr, microxln, gen dol, loc grdg **Dol.**

Rr **Pyr**

Clyst: a/a pred dk grn gy.



Clyst: bcm pred olv gy - dk grn gy. lam of dusky yel brn. else a a.

1800 - 1857 m

Clyst: dk yel brn - gy brn - mod brn. sft - firm. subfis. sl micromic. sl slty. non - mod calc (incr. calc downwards).

Strgs of **Lst:** gy orng - yel gy - pale yel brn. hd - v hd. blky. sucr. microxln. gen dol in pt grdg **Dol.**

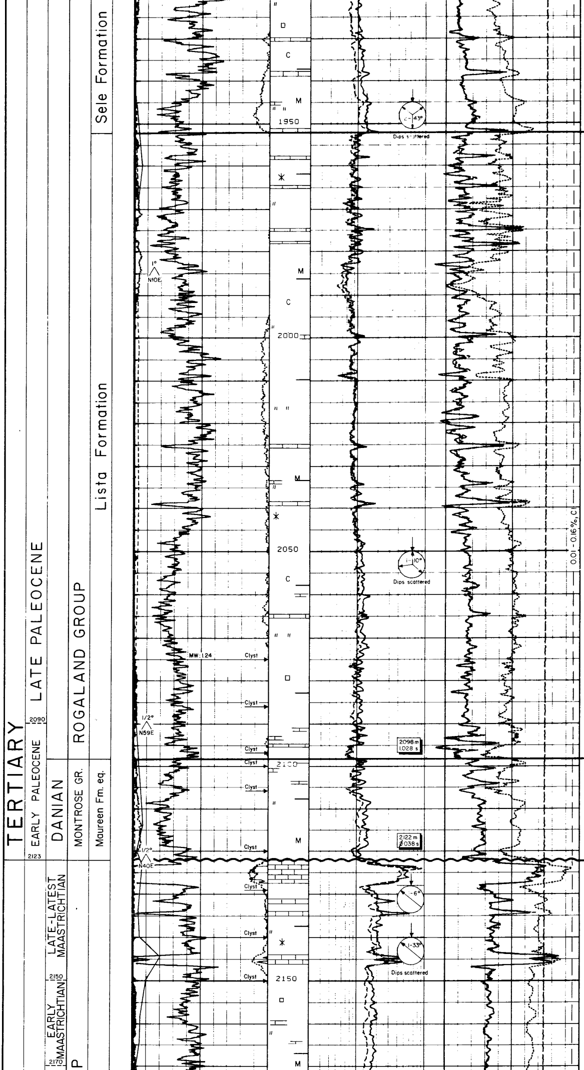
1857 - 1920 m

Clyst: olv gy - lt olv gy. firm - loc hd. subfis - blky. loc mod slty. tr carb. sl micromic. non calc.

Tr **Tuff:** lt gy - lt olv gy. sft - firm. wh - clr incl spec sl slty. non - sl calc.

Strgs of **Lst:** wh - lt gy - pink gy. sft - mod hd. loc amorph. in pt sucr. crypto - microxln.

1920 - 1952 m



Clyst: gen olv gy. minor olv blk, grn gy - dk grn gy. firm - mod hd, subfis - blky. sl micromic. sl slty - loc mod slty. to carb. occ pyr. non calc.

Strgs of **Lst:** lt gy - pink gy. occ pale yel brn. sft - mod hd. sucr. crypto - microxln.

1952 - 2098 m

Clyst: olv gy. grn gy - dk grn gy. minor olv blk - olv brn. lt olv gy. gen firm, occ sft - mod hd, in pt sl micromic. sl - mod slty, tr carb. tr glau. occ pyr. non calc.

Strgs of **Lst:** lt gy - pink gy. pale yel brn. occ wh. firm - v hd. blky - subfis. in pt sucr. sl arg. loc dol. crypto - microxln. occ tr **Calcite:** wh - clr. brit. xln.

Occ tr **Pyr.**

2098 - 2122 m

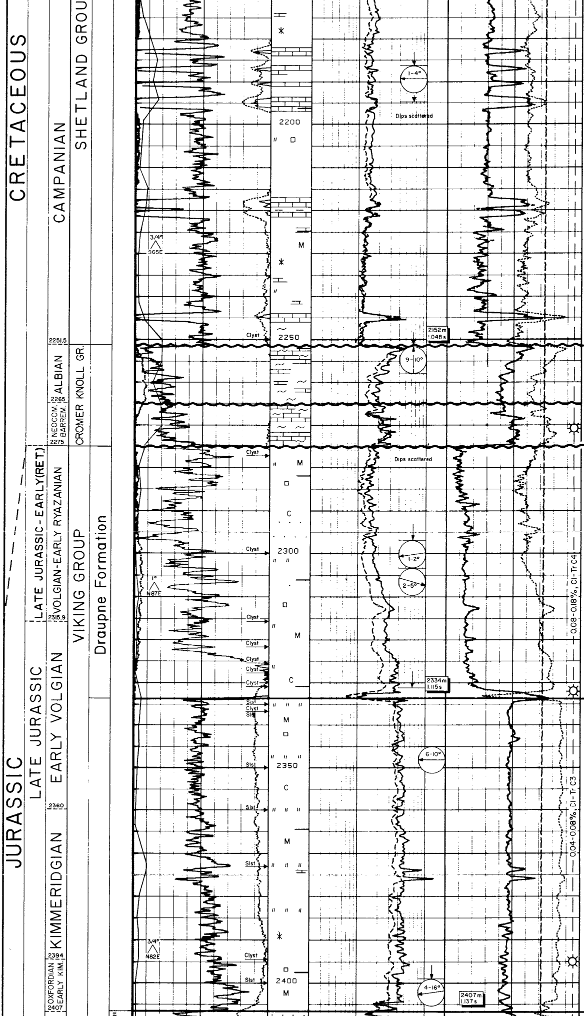
Clyst: olv gy - grn gy. also dk grn gy. mod hd - occ firm. subfis - blky. sl micromic. sl slty. non - loc mod calc.

Occ Strgs **Lst:** a/a.

2122 - 2251.5 m

Lst: wh - pink gy - lt gy. sft - mod hd. subfis - blky. crypto - microxln. non vis por.

Clyst: gen olv gy - olv blk, dk gy. loc grn gy. red brn - dk red brn - blk red. sft - mod hd, subfis - blky. non - loc slty, loc micromic. non - loc sl calc.



Tr **Clyst:** red brn - dk red brn - blk red.

2251.5 - 2275 m

Lst: wh - pink gy - lt gy, tr pale red, sft - firm, amorph, loc chky.

Clyst/Mrl: lt olv gy - lt gy, minor pink gy - pale red, sft - firm, sl stky, mod - v calc.

2275 - 2334 m

Clyst: brn blk - olv blk, sft - firm occ mod hd, subfis - loc blky, slty, earthy, carb, micromic, non - sl calc.

Tr **Sst:** clr - fros, smoky Qtz, vf - f, lse, rnd - subrnd, occ surbang, well srtd.

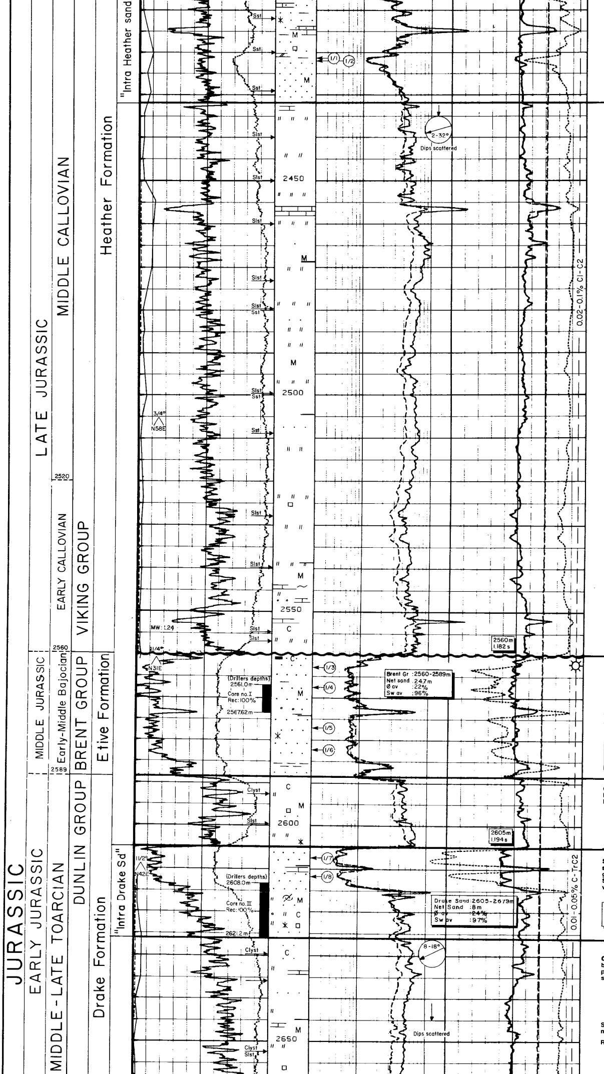
2334 - 2560 m

Clyst/Slst: grn gy - dk grn gy, m dk gy bcm olv gy, olv gy - dusky yel brn, loc tr gy red - blk red, firm - mod hd loc sft, blky - loc plty, in pt slty - v slty grdg **Slst,** tr micromic, non sl calc.

Tr **Slst:** brn blk - gy blk, sft - firm, subfis, mica - loc v mic, carb, sl calc.

Strgs of **Lst:** brn blk - olv blk, wh lt gy, firm - v hd, subfis - blky, loc slty and sdy.

2407 - 2432 m



Sst: lt gy - dk gy, Qtz, vf - f, lse - firm, bcm mod hd, brit, subang, calc, cmt, wh arg mtx, glau, mica - v mica, sl carb, mod - poor srtd, poor vis por.

Interlam **Clyst** a/a

Strgs **Lst** a/a

2432 - 2560 m

Slst grdg **Clyst:** olv gy - brn gy - dusky yel brn, firm - mod hd, blky - subfis, micro - mic' - mica, loc vf Sdy, non - mod calc.

Tr **Sst:** gen a/a in pt v slty - grdg **Slst.**

Tr **Sst:** dusky yel brn - olv gy - olv blk, vf - f, lse - mod hd, subang - subrnd loc calc cmt, v arg mtx, loc v mica, v slty grdg **Slst,** poor srtg, non vis por.
Lst: spec, m lt gy - dk gy, sft, mod hd, loc grdg **Mrl,** loc vf sdy grdg **Sst.**

2560 - 2589 m

Sst: Clr - occ fros Qtz, m - f occ crs, v hd - lse, subang - subrnd, occ ang, poor silic cmt wh arg mtx, mica, tr glau, loc tr coal clasts, poor - well srtd, poor - good vis por, also **Congl:** Qtz and lithic pbls < 30 mm, rnd, poor srtd in mtx of **Sst** a/a. **No shows.**

Note: Cores are correlated
to the logs.
Discrepancy between drillers
and loggers depth of appr. 5 m.

2589 - 2626 m

Clyst: olv blk - brn blk, firm - mod hd, blky - subfis, slty, occ vf sdy, loc tr carb, rr micropyr, non calc.

2605 - 2626 m

Sst: gen a/a lt v lt gy, m - f, well srtd, good vis por bcm m dk gy - dk grn gy, loc calc cmt, slty loc grdg. **Slst** mod - poor srtg, mod - poor vis por.

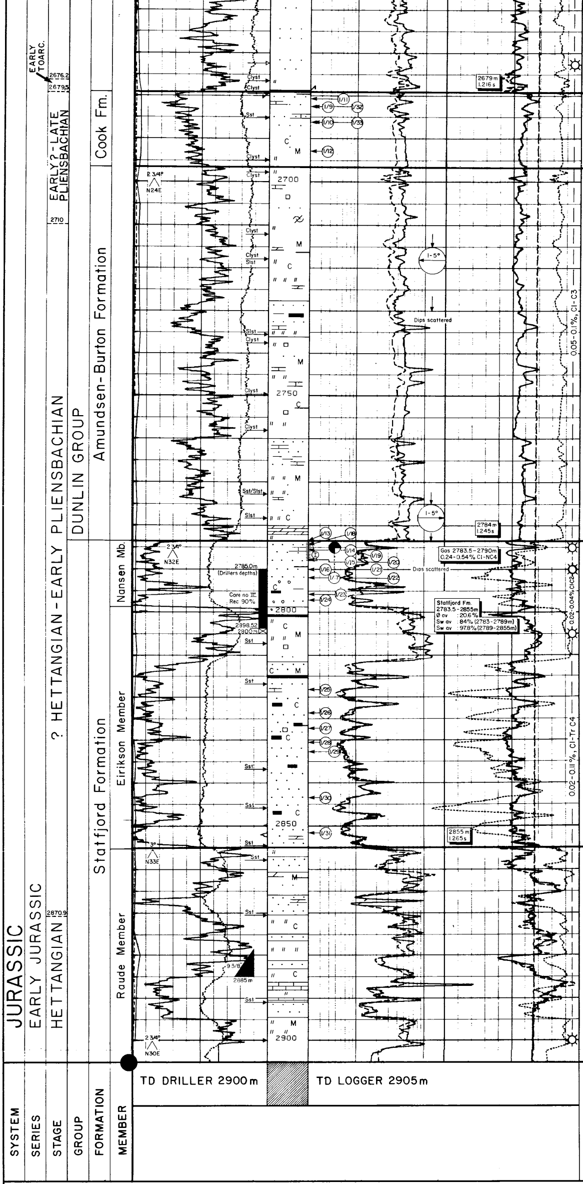
For details on cores see
core descriptions below.

2626 - 2679 m

Clyst: m bl gy - grn gy, bcm olv blk, brn gy, olv gy, firm - hd, blky - plty, slty - occ grdg **Slst,** occ vf sdy, sl carb, tr micromic, non calc.

Strgs of **Lst:** wh, mod hd, blky, microxln.

Rr **Pyr**



Bds of Sd: lt gy occ brn blk, clr Qtz, vf - f, loc f - slt, fri - lse. loc hd - mod hd, subang -ang, calc cmt, tr arg mtx. mod - poor srtg, fair - poor vis por.

2679 - 2696 m

Sst: wh - lt gy, clr Qtz, f - vf, hd - mod hd, brit, subang, calc cmt, sl mica, occ sl carb, mod - poor srtg, fair vis por.

2696 - 2783.5 m

Clyst: pred olv gy, loc brn gy, firm. pred blky. micromic, tr carb, non - sl calc, v slty - grdg **Slst** in pt.

Tr **Pyr.**

Tr **Dol:** dk yel brn. hd, brit, blky, sl slty, micro xln.

Sst: lt gy, clr - trnsl Qtz, f - vf, lse - mod hd, subang - subrnd, calc cmt, loc arg mtx, carb. mica, mod srtd, poor vis por. No show.

Sst a/a f, minor m.

Slst: olv gy - lt olv gy, firm - mod hd, blky, mica, tr carb. sl calc.

Dol: pale - dk yel brn, occ grn specs. hd. brit. blky. sl slty. micro xln.

2783,5 - 2855 m

Sst: wh - lt gy, clr - transl Qtz, m - f occ crs, pred lse, subang - subrnd, weak calc cmt. abn musc, tr carb and coal frags. mod - well srtd, gd vis por.
Shows: rr lt brn - brn blk stn, 20–40% fair - strong yel wh flu, weak slow - non strmg yel wh flu cut, strong inst flu crush cut, weak yel - wh flu resd.
No shows below 2786.1 (2791 m log)

Clyst: dusky yel brn - olv blk - brn blk. mod hd - hd. occ subfis, sl - v slty in pt grdg **Slst,** sl micromic, sl carb. non calc.

Tr **Pyr.**

Coal: blk, hd, brit, vit, Conch frac, occ slty. occ fib, wood frags.

Tr **Lst:** wh - lt gy, firm, arg microxln.

2855 - 2905 m

Clyst: Dusky yel brn - dusky brn, brn blk, minor dk grn gy - red brn, mod hd - hd. blky. occ mica, sl carb, non calc.

Sst: clr - milky Qtz. m - f, occ crs, lse - fri, subang - ang, calc cmt, tr coal, tr pyr, mod srtd. poor - fair vis por. No show.

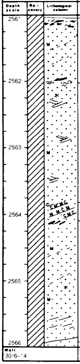
Clyst: dk red brn, firm - sft, amorph, slty - loc grdg **Slst,** rr mica, sl - v calc.

Lst: mud rock, wh - pink gy, tr gy specs, loc arg, loc sl sdy.

Norsk Hydro

Well no	Core report	Core no s
30/6–14		1

Interval	Area	Cut	Date
2561–2566 m	Norwegian North Sea	2561–2567.62 m	9.1.84
Scale	**Well R.K.B**	**Recovery**	**Geologist**
1:25	23 m	2561–2567.62 m 100%	Henderson/Dons



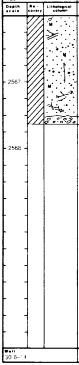
Depths	Lithological descriptions	Shows
2561.06	**Clyst:** olv blk - gy blk, hd, brit, blky, slty, tr micropyr, sl calc **Sst:** lt - m - yel gy, clr Qtz, m - f, mod hd, brit - fr, subang, v pr silic cmt, wh arg mtx, tr Musc, loc **Coal** clasts, mass - flgy, dip 25°, well srtd, fair vis por	
2562	**Sst:** lt gy, clr Qtz, m, mod hd, brit - fr, subang, v pr silic cmt, v gd wh arg mtx, tr Musc, rr Glau, mass x - bdg, dip 5–15° mod - well srtd, fair vis por	
	Sst: a/a as 1–10 mm lam w/intlam 0.1–0.5 mm Musc and Carb, dip 15°	On Carb lam: tr v slow non strmg weak yel flu, crush cut: weak yel flu, ring resd
2563.80		
2566.12	**Coal:** intlam, blk, hd, vit, dip 20° **Sst:** yel gy - m lt gy, clr Qtz, m, occ m - crs, loc f - m, mod hd - firm, fr, subang - subrnd, pr silic cmt, wh arg mtx, tr mica, rr Glau, mass - flgy, dip 30°, well srtd, gd - fair vis por	
	Sst: a/a pred f - m, loc arg intlam, dip 10–20°	
2565.90		

Well	Core report	Core no s
30/6–14	1 of 2	1

Norsk Hydro

Well no	Core report	Core no s
30/6–14		1

Interval	Area	Cut	Date
2566–2567.62 m	Norwegian North Sea	2561–2567.62 m	9.1.84
Scale	**Well R.K.B**	**Recovery**	**Geologist**
1:25	23 m	2561–2567.62 m 100%	Henderson/Dons



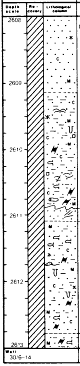
Depths	Lithological descriptions	Shows
	Sst: v lt gy - yel gy, clr Qtz, vf - crs, pred m, occ pbl < 10 mm, mod hd, brit, blky, subang - rnd, v pr silic cmt, wh slty v arg mtx, com mica, x - bdg, dip 5–30°, pr srtg, pr - fair occ gd vis por.	
	loc microfaults	
2567.50		
2567.62		
	Congl: m lt - lt gy, vf - crs w/pbl < 30 mm Qtz, rr lithic frags, hd - mod hd, brit, mtx ang - subrnd, pebs rnd, loc gd calc cmt, v arg mtx, tr mica, rr Glau, v pr srtg, no vis por	

Well	Core report	Core no s
30/6–14	2 of 2	1

Norsk Hydro

Well no	Core report	Core no s
30/6–14		2

Interval	Area	Cut	Date
2608–2613 m	Norwegian North Sea	2608–2621.2 m	10.1.84
Scale	**Well R.K.B**	**Recovery**	**Geologist**
1:25	23 m	2608–2621.2 m 100%	Dons/Henderson



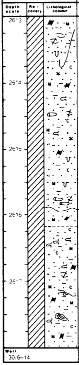
Depths	Lithological descriptions	Shows
BELEMNITE	**Sst:** v lt gy - lt gy, clr - trnsl Qtz, occ milky wh, m - f, mod hd, fr - brit, subang - occ subrnd, v pr silic cmt, occ wh arg mtx, tr carb coaly, tr Musc, tr Glau, well srtd, gd vis por, homogeneous, non calc	No show
08.69 Sealed Sample 08.93	gradational boundary	
	Sst: m gy - m lt gy, f - vf, clr - trnsl Qtz, mod hd, brit, subang, calc cmt, gd tr carb coal frag, [illegible]gy, gd tr mica (Musc + Biot), tr Glau, tr Pyr, occ grn fecal pel, tr cly mtx, mod - pr srtd, pr - mod vis por, non - sl calc. Minor **Clyst** dk gy as fill in burrows, bioturbation, occ w fecal pel, hd, brit, blky, homogeneous, non calc	
2610.88	**Sst:** grn gy - dk grn gy, Qtz, f - m, occ crs, abn cmt/mtx w peloidal iron oxide? pyr and wh arg non calc microxln mtx, v mica, tr coal clasts, wood frag + shell frag	
2611.10	**Sst:** brn blk - m gy - dk gy, clr Qtz, f - vf, occ m, occ grdg **Slst**, mod hd - hd, brit, subang - ang, abn cly mtx, mica - v mica, flg carb mat, Glau, tr calc cmt, mod - pr srtd, mod - pr vis por. Abn bioturbation tr ripple lam + lenticular bdg w clr sst.	
2612.76	Sst: as below (next sheet)	

Well	Core report	Core no s
30/6–14	1 of 3	2

Norsk Hydro

Well no	Core report	Core no s
30/6–14		2

Interval	Area	Cut	Date
2613–2618 m	Norwegian North Sea	2608–2621.2 m	10.1.84
Scale	**Well R.K.B**	**Recovery**	**Geologist**
1:25	23 m	2608–2621.2 m 100%	Dons/Henderson



Depths	Lithological descriptions	Shows
	Sst: brn blk - gy blk, occ m lt gy, Qtz – crl Qtz, f - vf, grdg **Slst**, hd, brit, ang - subang, sl calc cmt, mica (Musc + Biot), occ abn mica, sl carb, tr Glau, tr coal frag, non - sl calc, mod - pr vis por – articulated bivalve 2613.25 m + wood frag. Synsed microfault – gen bioturbated – Clyst/Slst mudclasts – some Cly mtx	No show.
2615.85	Belemnites wvy bdg **Sst:** cln a/a sl calc	
	Sst: grn gy - dk grn gy, Qtz, vf - f, hd, brit, subang, v mica, v carb, abn plant/wood frag, mod srtd, non calc, mod - pr vis por gen bioturbated, occ abn Cly mtx and mudclasts, loc grdg Slst	
	Mudclast in lam	

Well	Core report	Core no s
30/6–14	2 of 3	2

Norsk Hydro

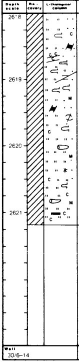
Norsk Hydro

Well no: 30/6–14

Core report

Core no.s: 2

Interval: 2618–2621.2 m
Area: Norwegian North Sea
Cut: 2608–2621.1 m
Date: 10.1.84
Scale: 1:25
Well R.K.B.: 23 m
Recovery: 2608–2621.2 m 100%
Geologist: Dons Henderson



Depths	Lithological descriptions	Shows
	Slst grdg vf Sst brn blk - dk gy Qtz mod hd, brt, subang, cly mtx, pyr + tr calc cmt, carb mica tr coal/wood frag, pr - mod srtd pr v s por. occ bioturbation	No show
	bivalve?	
	a/a tr Glau less bioturbation	
2621.20 m	a/a abn wood/leaf frag bioturbation filled w Clyst.	

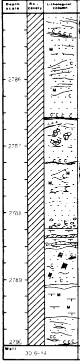
Well: 30/6–14
Core report: 3 of 3
Core no.s: 2

Well no: 30/6–14

Core report

Core no.s: 3

Interval: 2785–2790 m
Area: Norwegian North Sea
Cut: 2785–2800 m
Date: 15.1.84
Scale: 1:25
Well R.K.B.: 23 m
Recovery: 2785–2798.5 m 90%
Geologist: Edvardsen/Dons



Depths	Lithological descriptions	Shows
2785.0–2785.4 Sealed 2785.35	Sst: lt gy, f - m, mlky Qtz pred m, mod hd - hd subang - subrnd, silic cmt, tr arg mtx mica coal frags, mica wavy lam well srtd fair v s por	2785.0–2786,1 m Petroliferous odour 20–50% brn oil stain, 100% strong yel flu strong fast strm, yel - wh flu cut, pale straw v s cut, strong yel - wh flu resd
2786.68	Coal ~0.5 cm	
	Sst a.a bcm crs w/ Coal streaks and calc cmtd patches	No Show.
2787.24 Sealed 2787.2–2787.4	Wvy mica and carb lam	
2887.78	Sst: dk gy, m - crs, hd, subang, tr silic cmt, abn wh kaolin or anhy mtx, mica and coal frags, poor srtd	
2888.04	v crs Sst - congl: pebbles ~ 0.5 cm w coal streaks a/a	
2888.24	Clyst intbd w Sst	
2888.5	Sst lt gy, m a.a w Clyst clast and flgy coal streaks	
2889.13	Clyst/Sh: brn gy - brn blk, hd, subfis - blky, sl slty, micromic, non calc	No Show
2889.53	Sst: m - crs w/mica and coal lam	

Well: 30/6–14
Core report: 1 of 3
Core no.s: 3

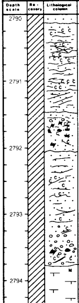
Norsk Hydro

Well no: 30/6–14

Core report

Core no.s: 3

Interval: 2790–2795
Area: Norwegian North Sea
Cut: 2785–2800 m
Date: 15.1.84
Scale: 1:25
Well R.K.B.: 23 m
Recovery: 2785–2798.5 m 90%
Geologist: Edvardsen/Dons



Depths	Lithological descriptions	Shows
2790.10	Sst: m - crs a/a	
	Sst: m gy, vf - f, v hd, subrnd, silic cmt, abn mica and ~ 40% interlam coal streaks, mod srtd, no vis por	No Show
	Loc ripples	
2790.82	X bdg and parallel lam Sst dipping ~ 15°	
2791.40	Sst: dk gy, m, occ pbly, mod hd, subang, abn wh kaolin or anhy mtx, poor srtd, no v s por abn Coal and Clyst clast 1–7 cm.	
2792.07	Sst: lt gy, m - crs, hd, subang silic cmt, tr wh kaolin or anhy mtx, mica and coal frags, poor srtd, poor v s por w/coal streaks and lam Sst a.a bcm v crs	
	bcm Congl w/ < 0.5 cm pebbles abn wh anhy or kaolin mtx. abn Coal and Clyst clasts	
2793.75	Clyst/Sh: dusky yel brn, hd, subfis, sl silty, tr mica and carb, non calc	

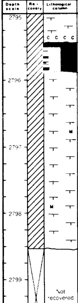
Norsk Hydro

Well no: 30/6–14

Core report

Core no.s: 3

Interval: 2795–2798.52 m
Area: Norwegian North Sea
Cut: 2785–2800 m
Date: 15.1.84
Scale: 1:25
Well R.K.B.: 23 m
Recovery: 2785–2798.5 m 90%
Geologist: Edvardsen/Dons



Depths	Lithological descriptions	Shows
	Clyst: bcm v carb. (See previous sheet.)	No Show
2795.42	Coal: blk, firm, vitr, conch frac, tr slty	
2795.80	homogeneous Clyst: dusky yel brn, hd, blky, tr slty, tr mica, non calc	
2898.52		